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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/712,576	11/14/2000	Ryo Yoshida	JA999144	9735

46369 7590 12/19/2005

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EXAMINER

BRUCKART, BENJAMIN R

ART UNIT PAPER NUMBER

2155

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/712,576	YOSHIDA, RYO	
	Examiner	Art Unit	
	Benjamin R. Bruckart	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Detailed Action

Status of Claims:

Claims 1-20 are pending in this Office Action.

Claims 1-2, 4-5, 7-20 are amended.

There are no new or cancelled claims.

Response to Arguments

Applicant's arguments filed in the amendment filed 12/23/04, have been fully considered but are moot in view of new grounds of rejection.

Applicant's invention as claimed:

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,219,708 by Martenson.

Regarding claim 1, a remote control system (Martenson: col. 3, lines 44-53) comprising:

- a terminal device having a control program (Martenson: col. 4, lines 21-30);

- a server coupled to said terminal device (Martenson: col. 4, lines 10-28), said server configured to transmit control data to said control program for controlling said terminal device (Martenson: col. 4, lines 25-30; Figure 4) and register three-dimensional model data representing said terminal device (Martenson: col. 4, lines 28-33; updated options);

- a client coupled to said server (Martenson: Fig. 4; col. 4, lines 21-30), said client configured to receive and render said three-dimensional model data (Martenson: col. 4, lines 30-33) and to transmit to said server update data for said three-dimensional model data (Martenson: col. 4, lines 21-30), said update data reflecting an operation on said terminal device (Martenson: col. 4, lines 28-33);

- wherein said server is further configured to receive said update data and transmit in response to receiving said update data (Martenson: col. 4, lines 21-33), corresponding operation control data to said control program in order to effect remote control of said terminal device by said client (Martenson: col. 4, lines 21-33).

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Regarding claim 2, the remote control system according to claim 1, wherein said control program of said terminal device interprets said operation control data for said operation of said terminal device, and transmits, to said server, control data for reflecting operating results for said operation (Martenson: col. 4, lines 28-32).

Regarding claim 3, the remote control system according to claim 2, wherein, based on said control data received from said terminal device, said server adjusts said three-dimensional model data to reflect the current state of said terminal device, and transmits the resultant three-dimensional model data to said client (Martenson: col. 4, lines 30-33).

Regarding claim 19, the remote control system of claim 1, further comprising:

a second client coupled to said sever, for employing a web browser to designate a URL for said three-dimensional model data (Martenson: col. 1, lines 66- col. 2, line 13), and for downloading said three-dimensional model data so as to share said three-dimensional model data with said client (Martenson: col. 3, lines 44-51; VRML);

wherein said server further comprises a model for recording an operation performed by a user as an operation even and for replaying, as needed, said operation event (Martenson: col. 5, lines 31-34 and col. 6, line 6).

Regarding claim 4, a server-client system comprising:

a server, in which are stored three-dimensional model data in a Java program file (Martenson: col. 3, lines 47-56), said three-dimensional model data representing a terminal device coupled to said server (Martenson: col. 16, lines 65- col. 17, line 3), and a program for controlling the terminal device (Martenson: col. 4, lines 1-33);

a first client connected to said server via a network, for calling, displaying and updating said three-dimensional model data (Martenson: col. 4, lines 1-33), and

a second client connected to said server via said network (Martenson: col. 1, lines 66- col. 2, line 3), for employing a web browser to designate a URL for said specific three-dimensional model data (Martenson: col. 8, lines 14-18), and for downloading and displaying said three-dimensional model data received from said server so as to share said three-dimensional model data with said first client (Martenson: col. 10, lines 30-45).

Regarding claim 5, the server-client system according to claim 4, wherein said first and said second clients display said three-dimensional model data to reflect a current control state of said terminal device (Martenson: col. 4, lines 1-33; col. 15, lines 42-45).

Regarding claim 6, the server-client system according to claim 4, wherein one of said first and said second clients is a computer at a customer support center that supports said terminal device (Martenson: col. 13, lines 20-29).

Regarding claim 7, a control server for a terminal device (Martenson: col. 4, lines 1-33), said control server comprising:

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a terminal device operation control program, for exchanging terminal device control data with a terminal device coupled to the control server, and for controlling the operation of said terminal device (Martenson: col. 4, lines 1-33);

three-dimensional model data (Martenson: col. 16, lines 65- col. 17, line 3), comprising geometrical data for representing said terminal device and terminal device operating data received from said terminal device reflecting operating results of said terminal device (Martenson: col. 16, lines 65- col. 17, line 3); and

a module for recording an operation on said terminal device performed by a user as an operation event and for replaying, as needed, said operation event (Martenson: col. 5, lines 31-34 and col. 6, line 6).

Regarding claim 8, the control server of claim 7, wherein said module employs recording/replaying software to record (Martenson: col. 5, lines 31-34 and col. 6, line 6), as a VRML operation event, an operation performed by a user on the terminal device that is generated via a VRML browser, and replays and displays said VRML operation event via said VRML browser (Martenson: col. 3, lines 44-51; col. 16, lines 65- col. 17, line 3).

Regarding claim 9, the control server according to claim 8, wherein said operation performed by said user is represented by the performance of an operation based on VRML contents (Martenson: col. 4, lines 1-33; col. 3, lines 44-51), which are said three-dimensional model data written for said VRML browser using a VRML format (Martenson: col. 16, lines 65- col. 17, line 3).

Regarding claim 10, the control server according to claim 7, further comprising

a module for exchanging an operation event with a client coupled to said control server via a network (Martenson: col. 4, lines 1-33).

Regarding claim 11, a terminal device control method whereby a client exercises remote control of a terminal device (Martenson: col. 4, lines 1-33), the method comprising:

designating a URL at said client with a web browser (Martenson: col. 8, lines 13-18), the URL corresponding to said terminal device, and downloading data representing said terminal device (Martenson: col. 4, lines 1-33);

rendering at said client said three-dimensional model data that are downloaded (Martenson: col. 4, lines 10-19; col. 3, lines 44-51);

updating said three-dimensional model data at said client, said updating corresponding to an operation on said terminal device (Martenson: col. 4, lines 28-33); and

transmitting operation control data to said terminal device in response to said updating (Martenson: col. 4, lines 20-33).

Regarding claim 12, the terminal device control method according to claim 11, wherein said s transmitting comprises:

transmitting the updated three-dimensional model data to a server (Martenson: col. 4, lines 20-33); and

employing said updated three dimensional model data to transmit said operation control data from said server to said terminal device (Martenson: col. 4, lines 28-33).

Regarding claim 13, the terminal device control method according to claim 12, further comprising:

transmitting control data for reflecting operating results from said terminal device to said server (Martenson: col. 4, lines 28-33); and

reflecting said control data to said three-dimensional model data, and transmitting the resultant three-dimensional model data from said server to said client (Martenson: col. 4, lines 28-33).

Regarding claim 14, a terminal device sharing method, for sharing among a plurality of clients information concerning a terminal device (Martenson: col. 4, lines 1-33; col. 1, lines 66- col. 2, line 3), the method comprising:

employing a web browser at a first client to designate a URL (Martenson: col. 8, lines 14-18) corresponding to said terminal device, and downloading model data representing said terminal device (Martenson: col. 4, lines 1-33);

rendering said model data that are downloaded (Martenson: col. 4, lines 1-33);

updating the rendered model data by said first client, and transmitting the updated model data, the updated model data representing an operation on the terminal device (Martenson: col. 4, lines 1-33);

employing a web browser at a second client to designate the URL, and downloading said model data (Martenson: col. 8, lines 14-18); and

receiving said updated model data at said second client (Martenson: col. 1, lines 66- col. 2, line 13).

Regarding claim 20, the terminal device sharing method of claim 14, wherein the model data comprises three-dimension model data representing said terminal device (Martenson: col. 16, lines 65 – col. 17, line 3).

Regarding claim 15, storage media on which is stored a computer-readable program that permits one or more computers to perform (Martenson: col. 4, lines 1-33):

a process of calling for three-dimensional model data representing a terminal device coupled to a network (Martenson: col. 4, lines 1-33; col. 3, lines 44-51; col. 16, lines 65- col. 17, line 3);

a process of rendering said three-dimensional model data that has been called for (Martenson: col. 4, lines 1-33; col. 7, lines 64- col. 8, line 12; displaying);

a process, of calling for a control file associated with said three-dimensional model data (Martenson: col. 4, lines 10-17; downloading the webpage of options); and

a process of receiving control data from said terminal device and reflecting the received control data to said three-dimensional model data (Martenson: col. 4, lines 1-33).

Regarding claim 16, storage media according to claim 15, wherein said computer-readable program further permits one or more computers to perform: a process of receiving updated values of three-dimensional model data from a client coupled to a network, and of transmitting said control data to said terminal device (Martenson: col. 4, lines 1-33).

Regarding claim 17, storage media on which is stored a computer-executable program that permits one or more computers to perform (Martenson: col. 4, lines 1-33):

- a process of calling for the transmission, via an external network, of three-dimensional model data concerning a terminal device (Martenson: col. 4, lines 1-33; col. 3, lines 44-51; col. 16, lines 65- col. 17, line 3);

- a process of rendering said three-dimensional model data that is called for (Martenson: col. 4, lines 1-33; col. 7, lines 64- col. 8, line 12; displaying);

- a process of calling for a control file associated with said three-dimensional model data (Martenson: col. 4, lines 10-17; downloading the webpage of options);

- a process of reflecting said control file to values of said three-dimensional model data (Martenson: col. 4, lines 1-33); and

- a process of changing the values of said data based on an operation on said three-dimensional model (Martenson: col. 4, lines 1-33; operation).

Regarding claim 18, a program transmission apparatus comprising:

- storage means for storing a program that executes a process of calling for the transmission, via an external network, of three-dimensional model data representing a terminal device (Martenson: col. 4, lines 1-33), a process of rendering said three-dimensional model data that has been called for (Martenson: col. 4, lines 1-33; col. 7, lines 64- col. 8, line 12; displaying), a process of calling for a control file associated with said three-dimensional model data (Martenson: col. 4, lines 10-17; downloading the webpage of options), a process of reflecting the values in said control file to the values of said three-dimensional model data (Martenson: col. 4, lines 1-33), and a process of changing the values of said three-dimensional model data based on an operation performed by a user on said three-dimensional model (Martenson: col. 4, lines 1-33); and

- transmission means for reading said program from said storage means and for transmitting said program to an external computer (Marteson: col. 4, lines 1-33)

REMARKS

Applicant has amended the claim language for the three-dimension model data to represent the device. The examiner suggests further defining the update data and its operation upon the device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R. Bruckart whose telephone number is (571) 272-3982. The examiner can normally be reached on 8:00-5:30PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Benjamin R Bruckart
Examiner
Art Unit 2155

brb



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